

**GCCS.2.1.IP-5**

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**Implementation Procedures for  
the Global Command and Control System (GCCS) 2.1  
HP-UX 9.0.7**

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## **1SCOPE**

These implementation procedures provide instructions for installing the Global Command and Control System (GCCS) version 2.1 for the Hewlett Packard (HP) series workstations. These procedures include instructions for installing the HP Operating System and the currently available software segments. This document is divided into the following sections:

- Section 2, INSTALLATION PREPARATION, provides guidance that should be followed before starting the installation procedures.
- Section 3, INSTALLING THE GCCS OPERATING SYSTEM (TAC-3/TAC-4), provides instructions for installing the HP Operating System.
- Section 4, APPLICATION SEGMENT INSTALLATION, addresses the specific installation and configuration items needed to load and configure specific software segments.

The GCCS concept is designed to support a wide range of mission applications through a diverse set of application “segments” executed under a Common Operating Environment (COE). All segments that pass Defense Information Systems Agency (DISA) integration testing become part of the GCCS baseline. Testing of the segments and validation of the functionality are the responsibility of the Government executive agent that provides the segment. The scope of GCCS version 2.1 is to implement the functionality required for the shutdown of the current Honeywell-based Worldwide Military Command and Control System (WWMCCS). GCCS version 2.1 contains the GCCS core functionality required for the shutdown of WWMCCS, as well as other critical legacy applications from earlier versions of GCCS. The emphasis of the GCCS version 2.1 installation is the implementation of this core functionality.

While the HP GCCS can be installed independently from the Solaris GCCS, dependencies can be established between the HP and Solaris. Current Solaris installations establish an Executive Manager server (EMSERVER) workstation. Facilities are provided on the HP and Solaris software that will allow a single Solaris EMSERVER to act as the entry point for building and configuring user accounts. If the site has established an EMSERVER, the HP installation should be configured to use that server. If the site has only HP workstations, a single HP can be established as the EMSERVER. These implementation procedures assume that each site will establish a Solaris EMSERVER.

Many of the GCCS applications require access to a Database Server (DBSERVER). If a DBSERVER is not available at the site, many of these applications will not run.

The complete set of software currently available for the Solaris version of GCCS is not available under the HP Operating System. The software segments shown on the next page are available for HP installation.

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| <b>Software Segment</b>                                  | <b>Description</b>   |
|--|--|
| <b>GCCS COE</b>  | Provides the GCCS Account Group, the JMCIS Account Group, and many core programs related to startup.   |
| <b>EM</b>  | Consists of the Executive Manager Segment, which provides the desktop environment.   |
| <b>ORACLE Tools</b>                                      | Consists of the ORACLE tools used to access the ORACLE database.   |
| <b>RDA (Requirements Definition Analysis)</b>            | Allows planners to analyze and edit Time-Phased Force Deployment Data (TPFDD) and determine the transportation feasibility of a course of action.  |
| <b>PDR (Pre-defined Reports)</b>                         | Allows the user to generate various reports with predefined formats that give requirements detail data, force module data, and results of OPLAN analyses. Access to PDR is not available at this time since access is provided through the JOPES Navigation segment. |
| <b>JMCIS (Joint Maritime Command Information System)</b> | Provides access to tactical information available through the SIPRNet. Consists of the Joint Mapping Tool Kit (JMTK), JMCIS Applications (JMCISApps), and UB Applications (UBApps).  |
| <b>TELECONFERENCING</b>                                  | Consists of NETSCAPE, NEWSGROUPS, and Internet Relay Chatter (IRC) segments.   |
| <b>Run Remote</b>  | Allows a user to execute applications that are not provided on the local system.   |

## 1INSTALLATION PREPARATION

Several configuration items need to be made known before the start of the installation process. If this site will have a Solaris machine as the EMSEVER, the configuration of the HP workstations will depend on this workstation. The current assumption is that each site will have at least one Sparc 20 that will act as the EMSEVER. If that is not the case, instructions for implementing GCCS on a single HP workstation will be provided in an appendix. The worksheets that were completed for the Solaris installation should be available for reference throughout the installation process.

### 1Configuring Domain Naming Service and Network Information Service

Given the architectural differences between the HP and Solaris Operating Systems, many system functions that operate on the Sparc workstations do not operate the same on HP workstations. The most important difference is that of the Network Information Services (NIS) and the */etc/nsswitch.conf* file. GCCS under Solaris uses NIS+, a version of NIS that has been enhanced over the previous NIS or yellow pages. The GCCS HP Operating System currently supports yellow pages. Since GCCS has chosen not to serve all of the system files by the Solaris NIS+ server, a separate NIS server needs to be established on an HP workstation.

An additional fundamental difference between Solaris and HP is the use of the *nsswitch.conf* file. One purpose of the *nsswitch.conf* file is to provide system level alternatives to the local system files that may be available in served files (either NIS or Domain Naming Service). The GCCS HP Operating System does not support a service similar to the *nsswitch.conf* file. Since the HP Operating System does not offer a choice after Domain Name Server (DNS) hostname resolution has occurred, such as referring to the local */etc/hosts* file, the configuration of the DNS server is extremely important.

The current implementation of the NIS software for the HP does not support the passing of passwords from the Solaris NIS+ system to the HP. Therefore, if a user changes his or her password on the Solaris system, he or she will need to make the same change on the HP system, and vice versa.

Therefore, the following items need to be determined:

1. Which machine is acting as the DNS.
2. What will be the NIS domain name for the suite of HP workstations.
3. What HP workstation will be the NIS server for all other HP workstations.
4. Which machine is the EM Server.
5. Which machine is the DB Server.

|  |
|--|
| <p><b>Note:</b> The HP workstation's host name <b>must</b> be in the DNS tables; otherwise, the HP workstation will not perform the necessary network functions.</p> |
|--|

In addition, the installer should know:

1. The xtp server (for RDA).
2. The IP address of the default router.
3. The JMCIS WAN UID (obtain from DISA)
4. Which machines are the IRC and News Servers.
5. Which printer is the default printer.
6. The amount of workstation RAM present.

## **1The Executive Manager**

For any site to have a single Solaris EMSERVER, some configuration changes need to be made before the HP workstations can work properly. Once the HP workstation that is acting as the HP NIS server has been determined, a data file on the Solaris side needs to be configured to have the EMSERVER recognize it as a valid workstation. This HP workstation will then be updated to reflect any user account manipulation from the EMSERVER. To accomplish this, the */h/EM/admin/security-scripts/Security\_Servers* needs to be edited on the EMSERVER to include the HP workstation. This data file should appear as below:

```
# Security_Servers
#
# This file contains information about the host machines
# on the network which provide msq, database and password
# name services.
#
# Each host providing services of that type should be listed
# here for use by Security_Manager, an application for adding,
# changing and deleting user accounts and groups.
#
# Each host listed should be of the form:
#
# host:db_name:msq:rsh_command:file_path
#
# host          Host name of the machine.
# db_name       Sybase database name. A server without a
#               sybase database should have "NONE" here.
# msq           This field should contain "TRUE" or "FALSE".
#               True means that this host acts as an msq
#               server for logins and profile information.
# rsh_command   The full path of the remote shell command for
#               the host.
# file_path     Full pathname for the location of the served files.
#
# Lines beginning with a '#' are ignored, as are blank lines.
```



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```
sun2:gccs:TRUE:/usr/ucb/rsh:/h/EM/nis_files/
```

```
# a sample HP entry should look like this
```

```
#hp1:NONE:FALSE:/usr/bin/remsh:/h/EM/nis_files
```

In addition, HP clients' hostnames must be entered into the following file on the EMSERVER:  
*/h/USERS/secman/Scripts/.rhosts*.

If this is not the first installation of this workstation, the timestamp file will need to be removed prior to installing the Executive Manager Segment. Execute the following command on the EMSERVER:  
*rm/h/data/global/EMDATA/msql/timestamp/hostname*.

## 1INSTALLING THE GCCS OPERATING SYSTEM (TAC-3/TAC-4)

This section, which describes how to install the GCCS Operating System, applies to all HP platforms. The systems that comprise the set of HP workstations are TAC-3 workstations (i.e., HP 755, 750, 735, 730, 720, and 715) and TAC-4 workstations (i.e., HP 770 and 712).

All steps shown below must be performed in the exact order presented in order to correctly install the GCCS Operating System on a TAC-3 or a TAC-4. No steps may be skipped. This procedure takes about one and one half hours and it assumes that the DAT drive is configured to have an address of SCSI 3.0.

STEP 1:        Make sure the TAC-3 or TAC-4 workstation is powered OFF.

**WARNING:** Read STEPS 2 through 4 carefully before continuing with this procedure. Because the time between STEPS 3 and 4 is minimal, hold the [ESC] key immediately when instructed. If you delay, the system boots from the first device it finds, which may not be the desired device.

STEP 2:        Turn ON the workstation.

STEP 3:        Insert the GCCS Operating System tape into the DAT drive.

Green and orange panel lights blink on the DAT drive to indicate that a memory test is in progress. This test takes approximately one minute, depending on the amount of available system memory in your unit. The red, green, and blue color "flashes" that appear on the monitor (**TAC-3 only**) indicate that the memory check is complete and that the colors are turned on for the monitor. Perform STEP 4 immediately upon observing the color flashes.

**NOTE:** When performing this procedure on a TAC-4, the Hewlett Packard screen is displayed instead of the red, green, and blue color flashes. Perform STEP 4 immediately when the Hewlett Packard screen appears.

STEP 4: Press and hold down the [ESC] key **immediately** until the words "Search Terminated" appear. Then release the [ESC] key. A display similar to the following appears (TAC-3 only):

PDC ROM rev. 1.2  
IODC ROM rev. 1.0  
128 MB of memory configured and tested.

Selecting a system to boot.  
To stop selection process, press and hold the ESCAPE key

Selection process stopped.

Searching for Potential Boot Devices.  
To terminate search, press and hold the ESCAPE key.

Search terminated.

- b) Boot from specified device
- s) Search for bootable devices
- a) Enter Boot Administration mode
- x) Exit and continue boot sequence
- ?) Help

Select from menu:

**NOTE:** When installing the GCCS Operating System on a TAC-4, the following Boot\_Admin menu appears:

| Command                            | Description                          |
|------------------------------------|--------------------------------------|
| Auto [boot search][on off]         | Display or set auto flag             |
| Boot [pri alt scsi.addr][isl]      | Boot from primary, alternate or SCSI |
| Boot lan [.lan_addr][install][isl] | Boot from lan                        |
| Chassis [on off]                   | Enable chassis codes                 |
| Diagnostic [on off]                | Enable/disable diagnostic boot mode  |
| Fastboot [on off]                  | Display or set fastboot flag         |
| Help                               | Display the command menu             |
| Information                        | Display system information           |
| LanAddress                         | Display lan station addresses        |
| Monitor [type]                     | Select monitor type                  |
| Path [pri alt][lan.id][SCSI.addr]  | Change boot path                     |

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|                                 |                                |
|---------------------------------|--------------------------------|
| Pim [hpmc toc lpmc]             | Display PIM info               |
| Search [ipl][scsi lan[install]] | Display potential boot devices |
| Secure [on off]                 | Display or set security mode   |

---

STEP 5: Type the following command at the "Select from menu" prompt for the TAC-3:

**B scsi.3.0 [RETURN]**

Type the following command at the "Boot\_Admin" prompt for the TAC-4:

**boot scsi.3.0 [RETURN]**

The screen displays several messages to show the progress of the installation process. Then the following message appears:

EISA configuration has completed. Following the completion of a successful HP-UX installation, please check the "etc/eisa/config.err" file for any EISA configuration messages.

Press any key to continue. >

STEP 6: Press [RETURN]. A display similar to the following appears:

Welcome to HP-UX install. There are basically 4 steps to installing HP-UX, which this and another utility will lead you through.

Step 1) Select the root "destination disk" and its characteristics.

Step 2) Optionally modify the file system parameters pre-set for your chosen destination disk.

Step 3) Optionally choose any other disks to be added to the system. This may be useful if root disk space is insufficient.

Step 4) Choose the filesets (functional groups of files) which you want loaded onto the destination disk.

A menu driven interface will guide you through the above steps.

Press any key to continue. >

STEP 7: Press [RETURN].

The system displays the HP-UX INSTALLATION UTILITY -- ROOT DESTINATION MENU. Read the information carefully. The disk with Bus Address 6 should be the default disk; it is always the preferred disk.

The display looks similar to the following:

HP-UX INSTALLATION UTILITY -- ROOT DESTINATION MENU

If the disk shown below (name and system location) is the desired destination device, press <Return>.

If the desired ROOT disk is not listed, make sure it is connected properly and turned on, then select the "Search Again" item.

If your disk is STILL not recognized, you can use the "Other disk" item to manually enter the Disk address.

| Disk            | Slot<br>Number | Bus<br>Addr | Func<br>Num |
|-----------------|----------------|-------------|-------------|
| 1. MICROP 1528  | at             | 0 6         | 0           |
| 2. MICROP 1528  | at             | 0 5         | 0           |
| 3. Search Again |                |             |             |
| 4. Other disk   |                |             |             |
| 5. Exit Install |                |             |             |

Enter selection [1]

STEP 8: Press **[RETURN]** to accept the default disk. The installation program checks the selected disk.

STEP 9: Press **[RETURN]** when the following prompt appears:

There may be an HP-UX system already on the disk...Press any key to continue

STEP 10: Press **[RETURN]** to accept the default at the following prompt:

Do you want the root filesystem to allow long filenames? [y]

The HP-UX INSTALLATION UTILITY -- MAIN MENU appears:

HP-UX INSTALLATION UTILITY -- MAIN MENU

| Major<br>Number | Slot<br>Number | Bus<br>Address | Function<br>Number | Model        | MountPoint |
|-----------------|----------------|----------------|--------------------|--------------|------------|
| -----           |                |                |                    |              |            |
| Source: -1      | 0              | 3              | 1                  | Tape         |            |
| Root Device: 7  | 0              | 6              | 1                  | MICROP 152 / |            |

If the destination device shown above is correct, and you do not want to modify filesystem parameters or add any additional non-root filesystems, select the "CONTINUE" option below.

1. Continue Installation Process.
2. Change ROOT Destination Device.
3. Change ROOT Filesystem Type.

4. Change ROOT Filesystem Parameters.
5. Add a non-root Disk/Filesystem.
6. Modify/Display non-root Disks/Filesystems.
7. EXIT the Installation.

Enter selection [1]

STEP 11: Accept the default selection to continue the installation process by pressing [RETURN]. The Swap space verification menu appears.

STEP 12: Enter root disk swap space in kilobytes equivalent to twice the available workstation RAM not to exceed 256 MB, but not less than the total amount of workstation RAM. For example; if the workstation has 80 MB of RAM, enter **160000** and press [RETURN]; if the workstation has 192 MB of RAM, enter **256000** and press [RETURN].

STEP 13: Observe the following message:

Note: Swap space value will be rounded to match system constraints, press any key to continue.

STEP 14: Press [RETURN] and then press the **Ctrl** and **x** buttons simultaneously.

STEP 15: Observe the following message:

Continuing the installation process will destroy the contents of the disk listed above.  
Do you wish to continue? (y/n) [ ]

STEP 16: Type **y** to continue.

The system begins to unpack the tar files. A series of “x...” messages appears on the screen. This process continues for approximately three minutes. After the tar files are unpacked, the system reboots and begins the GCCS environment installation.

**NOTE:** When installing the GCCS Operating System on a TAC-4, the following prompt appears at this point:

A PS/2 DIN interface has been detected on this system. In order to use a keyboard on this interface, you must specify a language mapping which will be used by X windows and the Internal Terminal Emulator (ITE).  
Your choice will be stored in the file /etc/kbdlang

Press Enter to select “PS/2\_DIN\_US\_English” Space for next.

STEP 17: Press **[RETURN]**.

The environment installation takes approximately 45 minutes. At the end of this time, the following message appears: "Rebooting system - Login as Sysadmin to install GCCS applications." Then, during reboot, the following prompt appears:

|  |
|--|
| <p><b>NOTE:</b> A display similar to the following only appears during the installation of the GCCS Operating System on a TAC-3.</p> |
|--|



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\*\*\*\*\*

HP Monitor/Keyboard Configuration

\*\*\*\*\*

1 HP Keyboard(s) found

0 PS Keyboard(s) found

Possible configuration(s):

(1) One keyboard with a single monitor

(2) One Keyboard with dual monitors

Select the number that corresponds to your configuration:

STEP 18:     Type 1 [RETURN].

STEP 19:     Type [RETURN] at the "Are you sure?" prompt.

When the reboot is complete, the monitor displays login prompts superimposed on an image of the Earth. Once the GCCS Workstation Console login screen appears, the operating system is loaded.

STEP 20:     Remove the GCCS Operating System tape and put it in a safe place.

STEP 21:     Proceed to Section 4.1 for instructions on loading GCCS and other application software.

## 1 APPLICATION SEGMENT INSTALLATION

### 1 Overview

All GCCS software is packaged in modules called software segments. These segments are loaded using the Segment Installer tool. (Segment Installer instructions are provided in the GCCS System Administration Manual.) The Segment Installer tool is a Graphical User Interface (GUI) that does the following:

- Identifies which applications/segments are loaded on your system.
- Identifies which applications/segments are available on a tape or on a Segment Installation Server.
- Provides the capability to install and/or de-install applications/segments on the system.

The Segment Installer installs software in the */h* file system. When this file system is approximately 80 percent full, the Segment Installer will install software in */home1*, followed by */home2*, */home3*, . . . , */home99*. The 80 percent constraint can be overridden on systems with limited amounts of disk space by using the Disk Space Override feature of the Segment Installer.

In most cases, the software installation process is automatic, requiring no further actions on the part of the installer.

The segments are contained on 4mm or 8mm tapes provided by DISA.

### 1 Application Server Segments

An application server is any platform on which a user runs an application. An application server may also function as an EMSEVER, a Sybase server, or an AMHS server.

The following points should be noted when building an application server:

- "Printer," "JMTK," "JMCISApps," "UBApps," and associated patch segments are required only if JMCIS is run on the platform. (See Figure 1 for a list of segments needed to attain JMCIS functionality.)
- Only applications that need to be run on the server should be loaded.
- When upgrading a system, any installed segment whose version number has not changed does not have to be de-installed or re-installed.

|                              |
|------------------------------|
| Printer                      |
| Joint Mapping ToolKit (JMTK) |
| JMTK 2.1.3 Patch 2           |
| JMCIS Applications           |
| JMCIS Apps 2.1.3 Patch 2     |
| UB Applications              |
| UB Apps 2.1.3 Patch 2        |
| <b>TOTAL 165,714KB</b>       |

**Figure 1. JMCIS Platform**

**GCCS Teleconferencing** is composed of several segments (see Figure 2). Read the Teleconferencing sections of the GCCS System Administration Manual completely before attempting to install these segments.

|  |
|--|
| HTTPD HTML Server (on one platform)          |
| HTTPD.HP Patch 1                             |
| PERL   |
| Internet Relay Chat Server (on one platform) |
| Internet Relay Chat Server Patch 1           |
| Internet Relay Chat Client                   |
| Internet Relay Chat Client Patch 1           |
| Internet NEWS Server (on one platform)       |
| Internet NEWS Server Patch 1                 |
| XWindows-based News Client                   |
| XWindows-based News Client Patch 1           |
| XWindows-based News Client Patch 2           |
| XWindows-based News Client Patch 3           |
| Text News Client                             |
| Text News Client Patch 1                     |
| Text News Client Patch 2                     |
| Text News Client Patch 3                     |
| Text News Client Patch 4                     |

**Figure 2. Teleconferencing Functionality**

## 1Loading Applications on an HP Workstation

The construction of HP workstations is similar to building an Application Server.

The installation process for the **GCCS Application Segments** is identical on a TAC-3 and a TAC-4. It is accomplished using the **Segment Installer (SAInstaller)**. This procedure is written under the assumption that the application segments are being loaded from tape using the workstation's own **DAT** drive.

The following steps must be performed in the *exact order* presented to install the GCCS Application Segments correctly. No steps may be skipped.

### 1Installing the GCCS COE

STEP 1: Type **sysadmin** and press [RETURN] at the "GCCS Workstation Console Login:" prompt.

STEP 2: Type **vinson** at the "Password:" prompt and press [RETURN].

STEP 3: Agree to the provisions set forth in the "Consent to Monitoring" screen by pressing [RETURN].

The SYSTEM ADMINISTRATOR screen appears.

STEP 4: Insert the tape containing the GCCS COE into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 5: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 6: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 7: Select **GCCS COE** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s). During the installation, the following warning appears: "Reboot the system after this segment is loaded."

STEP 8: Acknowledge this warning by pressing [RETURN] or clicking the **OK** button. When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.

STEP 9: Click the **OK** button to acknowledge the warning and then reboot the machine by selecting **Reboot** under the **Hardware** pull-down menu.

## 1Installing the Executive Manager (Exec Mgr) Segment

- STEP 1: Type **sysadmin** and press [RETURN] at the “GCCS Workstation Console Login:” prompt.
- Type **vinson** at the “Password:” prompt and press [RETURN].
- STEP 2: Agree to the provisions set forth in the “Consent to Monitoring screen” by pressing [RETURN].
- The SYSTEM ADMINISTRATOR screen appears.
- STEP 3: Insert the tape containing the **Exec Mgr** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 4: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 5: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 6: Select **Exec Mgr** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 7: Click the **OK** button to acknowledge the warning and exit the Segment Installer by clicking the **Exit** button.
- STEP 8: Log out by selecting **Logout** (or **System Exit**) under the **System** pull-down menu.
- STEP 9: Type **sysadmin** at the “GCCS Workstation Console Login:” prompt and press [RETURN].
- Type **vinson** at the “Password:” prompt and press [RETURN].
- STEP 10: Agree to the provisions set forth in the “Consent to Monitoring screen” by pressing [RETURN].
- STEP 11: Edit the */etc/hosts* file so it contains only the IP address and machine name of the host machine, its EMSERVER, and its db Server IP address and their respective machine names.

While logged in as sysadmin, execute the following commands from an xterm window:

- a. Type **vi /etc/hosts**.
- b. Type **dG** to delete from the cursor to the end of the file.
- c. Type **i** to insert.
- d. Type **[IP address] [TAB] [Your hostname]**
- e. Type **[IP address] [TAB] [EMServer hostname] [TAB] emserver [RETURN]**.
- f. Type **[IP address] [TAB] [dbserver hostname] [TAB] dbserver [RETURN]**.
- g. Type **127.0.0.1 [TAB] localhost [RETURN].loghost [RETURN]. [TAB] emhost**.
- h. Press **[ESC]**.
- i. Type **:wq!** and press **[RETURN]**.

STEP 12: Set the **Default Route** in the */etc/netlinkrc* file.

Execute the following as sysadmin from an xterm window:

- a. Type **vi /etc/netlinkrc**.
- b. Press **/** (slash).
- c. Type **route commands** to move the cursor to the appropriate line.
- d. Type **o** (lower case o).
- e. Type **/etc/route add default router\_ip\_address 1**.
- f. Press **[ESC]**.
- g. Type **:wq!** and press **[RETURN]**.

STEP 13: Configure **mount points**.

Execute the following as sysadmin from an xterm window:

- a. Type **vi /etc/checklist**.
- b. Press **/** (slash).
- c. Type **jots1**.
- d. Type **dd**.
- e. Type **:wq!** and press **[RETURN]**.

- STEP 14: Select **Change Machine ID** from the **Network** pull-down menu. Enter the machine name and its Internet Protocol (IP) address into the appropriate boxes in the lower half of the window.
- STEP 15: Click on the **Exit** button. A confirmation box appears indicating that the machine must be rebooted for changes to take effect. Click **OK** to reboot.
- STEP 16: Type **sysadmin** and press **[RETURN]** at the “GCCS Workstation Console Login:” prompt.
- Type **vinson** at the “Password:” prompt and press **[RETURN]**.
- STEP 17: Agree to the provisions set forth in the “Consent to Monitoring screen” by pressing **[RETURN]**.
- The SYSTEM ADMINISTRATOR screen appears.
- STEP 18: Transfer the */etc/resolv.conf* file via file transfer protocol (FTP) from the EMSEVER.

Execute the following as sysadmin from an xterm window:

- a. Type **ftp emserver** and press **[RETURN]**. A display similar to the following should appear:

Connected to emserver.  
220 emserver FTP server (Version wu-2.4(1) Wed Sep 13  
16:56:26 EDT 1995) ready.  
Name (emserver:root):
- b. Type **root** and press **[RETURN]**. A display similar to the following should appear:

331 Password required for root.  
Password:
- c. Enter the root password for the EMSEVER and press **[RETURN]**. A display similar to the following should appear:

230 User root logged in.  
ftp>
- d. Type **bin** at the ftp prompt and press **[RETURN]**.
- e. Type **get/etc/resolv.conf** and press **[RETURN]**. The following display should appear:

200 PORT command successful.



150 Opening BINARY mode data connection for /etc/resolv.conf (122  
bytes).

226 Transfer complete.

ftp>

f. Type **quit** and press [RETURN].

STEP 19: Read the *EM\_install*.README file located in the directory */h/EM/systools*. It gives brief instructions on running *EM\_install*.

STEP 20: Run the EM\_install program from an xterm in the */h/EM/systools* directory. Before executing EM install, set the terminal by typing **stty sane:stty erase ^H**. This will help prevent problems if an incorrect entry is typed. The following prompt appears on the monitor:

The workstation may be configured as one of the following:

1. Standalone
2. Server
3. Client

Enter your choice (1,2,3):

STEP 21: Type **3** and press **[RETURN]**. The following prompt appears:

**[emserver]** is already aliased to emserver.

Use **[emserver]** ? (y/n)

STEP 22: Type **y** and press **[RETURN]**. The following prompt appears:

**[dbserver]** is already aliased to dbserver.

Use **[dbserver]** ? (y/n)

STEP 23: Type **y** and press **[RETURN]**. The following prompt appears:

Is this machine going to be the master NIS server (y/n)?

Type **y** if you are configuring the machine that will serve as the NIS server.

The following prompt appears:

|   |
|---|
| <p><b>Note:</b> Make a note of the workstation that is the Master NIS Server.</p> |
|---|

The current domain name is:

Do you wish to enter a new domain name? (y/n)

STEP 24: Type **y** and press **[RETURN]**. The following prompt appears:

Enter new domain name.

This domain name should be different than the Solaris NIS domain name.

STEP 25: Type **[machine name.gccs]** and press **[RETURN]**.

If this machine is not the Master NIS Server, use the domain name specified on the Master NIS Server, reboot the system and skip to Section 4.3.3. If this machine is the Master NIS Server, the following prompt appears:

Use [machine name] when asked for a server.

## **Implementation Procedures for the Global Command and Control System (GCCS) 2.1 HP-UX 9.0.7**

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You will be required to answer a few questions to install the  
Network Information Service.

All questions will be asked at the beginning of this procedure.

Do you want this procedure to quit on non-fatal errors? [y/n: n]

- STEP 26: Type **y** and press **[RETURN]**. The following prompt appears:
- At this point, you must construct a list of hosts which will be NIS servers for the **[*machine name.gccs*]** domain.
- This machine, ***machine name***, is in the list of Network Information Service servers.
- Please provide the hostnames of the slave servers, one per line.
- When you have no more names to add, enter a <ctrl-D> or a blank line.
- next host to add: **[*machine name*]**
- next host to add:
- STEP 27: Press **[RETURN]**. The following prompt appears:
- The current list of NIS servers looks like this:
- [*machine name*]**
- Is this correct [y/n: **y**]
- STEP 28: Type **y** and press **[RETURN]**.
- The monitor then displays indications that it is running **/usr/etc/yp/ypmake**.
- STEP 29: Type **reboot** when the root prompt returns and press **[RETURN]**. Remove the tape containing the EM segment from the DAT drive and store it in a safe place.
- STEP 30: Type **sysadmin** and press **[RETURN]** at the “GCCS Workstation Console Login:” prompt.
- Type **vinson** at the “Password:” prompt and press **[RETURN]**.
- STEP 31: Agree to the provisions set forth in the “Consent to Monitoring screen” by pressing **[RETURN]**.
- STEP 32: Double click the **xterm** icon to open an xterm window. Execute the program **yp\_make** in the **/h/EM/systools** directory. The program calls for no operator inputs. When it has completed, close the xterm window.

|  |
|--|
| <p><b>Note:</b> Execute <b>yp_make</b> <u>ONLY</u> on the Master NIS Server.</p> |
|--|

## 1Installing the GCCS COE Patch 5 Segment

- STEP 1: Use the pointing device to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 2: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

- STEP 3: Select **GCCS COE Patch 5** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). During the installation, the following warning appears: "Reboot the system after this segment is loaded."
- STEP 4: Acknowledge this warning by pressing **[RETURN]** or by clicking the **OK** button. When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the GCCS Patch 5 segment from the DAT drive and store it in a safe place.
- STEP 7: Reboot the system by selecting **Reboot** under the **Hardware** pull-down menu.

## 1Installing the EM Printer Admin Segment

- STEP 1: Type **sysadmin** and press **[RETURN]** at the "GCCS Workstation Console Login:" prompt.
- Type **vinson** at the "Password:" prompt and press **[RETURN]**.
- STEP 2: Insert the tape containing the **EM Printer Admin** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 3: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 4: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 5: Select **EM Printer Admin** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 6: Click the **OK** button to acknowledge the warning.
- STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Printer segment from the DAT drive and store it in a safe place.

## 1Installing the Exec Mgr Print Patch Segment

- STEP 1: Insert the tape containing the **Exec Mgr Print Patch** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **Exec Mgr Print Patch** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Printer segment from the DAT drive and store it in a safe place.

## 1Installing the Exec Mgr Process Patch Segment

- STEP 1: Insert the tape containing the **Exec Mgr Process Patch** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **Exec Mgr Process Patch** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s).
- A warning window appears stating, "You must log out. You will be unable to launch programs until you log in again."

- STEP 5: Click the **OK** button to acknowledge the warning.
- When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 6: Click the **OK** button to acknowledge the warning.
- STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Printer segment from the DAT drive and store it in a safe place.
- STEP 8: Log out by selecting **Logout** under the **System** pull-down menu.

## 1Installing the Printer Segment

- STEP 1: Type **sysadmin** and press [RETURN] at the “GCCS Workstation Console Login:” prompt.
- Type **vinson** at the “Password:” prompt and press [RETURN].
- STEP 2: Insert the tape containing the **Printer** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 3: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 4: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 5: Select **Printer** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 6: Click the **OK** button to acknowledge the warning.
- STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Printer segment from the DAT drive and store it in a safe place.

## 1Installing the Joint Mapping Toolkit (JMTK) Segment

- STEP 1: Insert the tape containing the **Joint Mapping Toolkit** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The



**Segment Installer** window appears.

- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **Joint Mapping Toolkit** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the JMTK segment from the DAT drive and store it in a safe place.
- STEP 7: Repeat STEPS 1 through 4 to install the **JMTK Patch 2** segment.

## 1Installing the UB Applications (UBApps) Segment

- STEP 1: Insert the tape containing the **UBApplications** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **UBApplications** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the UBApps segment from the DAT drive and store it in a safe place.
- STEP 7: Repeat STEPS 1 through 4 to install the **UBApps Patch 2** segment.

## 1Installing the JMCIS Applications (JMCISApps) Segment

- STEP 1: Insert the tape containing the **JMCIS Applications** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **JMCIS Applications** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the JMCISApps segment from the DAT drive and store it in a safe place.
- STEP 7: Repeat STEPS 1 through 4 to install the **JMCISApps Patch 2** segment.

## 1Installing the UB DNS Patch 1 Segment

- STEP 1: Insert the tape containing the **UB DNS Patch 1** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **UB DNS Patch 1** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s).
- A warning window appears stating, "The system must be rebooted for this patch

to take effect.”

STEP 5: Click the **OK** button to acknowledge the warning.

When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.

STEP 6: Click the **OK** button to acknowledge the warning.

STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Printer segment from the DAT drive and store it in a safe place.

STEP 8: Reboot the system by selecting **Reboot** under the **Hardware** pull-down menu.

## 1Configuring the JMCIS Datafiles

STEP 1: Configure the JMCIS data files. To accomplish this, perform the following steps:

- a. As **sysadmin**, bring up an xterm window, change to the following directory by typing:

**# cd /h/data/local/UB/System/Network**

- b. Edit all files that end with *host*:

1. Type **foreach file (\*host) [RETURN]**.
2. Type **echo *your hostname* > \$file [RETURN]**.
3. Type **end [RETURN]**.

- c. Change the *hosts* file in this directory:

**vi hosts**

*/jots1* (type a "slash", then **jots1**; this finds the string *jots1* in the file)

**cw** (change word)

*hostname* (enter the JMCIS master host name)

**<ESC>**

**j** (move to the next line)

**cw** (change word)

*hostname2* (host name of a JMCIS client workstation)

**<ESC>**

**:w** (write the file)

**j** (move to the next line)

**dG** (delete to the end of the file)

**:wq!** (write and then quit the file)

The file should have at least two uncommented lines that look like the following:

hostname1

hostname2 2

The entry with the "1" is always the JMCIS master. The entry with the "2" is the first client. The user may change or append any other entries after the first client with increasing trailing numbers (i.e., "hostname3 3"). This represents more clients to the JMCIS master.

- d. Each *client* must have the JMCIS global data directory NFS mounted from the JMCIS master. Verify that the entry in the */etc/checklist* contains the correct data directory. The */h/Nauticus/data/mnt* directory must be mounted off of the JMCIS master.

If this is the case, the */etc/checklist* should appear as follows:

dbserver: /h/USERS /h/USERS nfs rw,bg,soft 1 3 0

emserver:/h/data/global/ /h/data/global/ nfs yes rw,bg,soft 1 3 0

jmcis\_master\_hostname:/h/Nauticus/data/mnt /h/Nauticus/data/mnt nfs rw,bg,soft

1 3 0

Perform STEPS 2 though 5 only on the JMCIS Master machine.

STEP 2: Set the JMCIS WAN DDN unique identifier.

The JMCIS WAN DDN Unique Identifier (UID) is an important piece of information for Track database control across the SIPRNet. This UID must be unique to the site's JMCIS master. If it is not a unique identifier to distinguish the site's JMCIS master from other JMCIS masters, problems may arise when JMCIS tries to perform Track correlation. The site must get a unique identifier for its system. This must be obtained from the GCCS Hotline or OSF.

To set the JMCIS WAN DDN UID, perform the following instructions:

- a. Log in as **sysadmin**.
- b. Select **Set WAN UID** from the Network pull-down menu.
- c. Enter the appropriate three alphanumeric characters (i.e., the unique identifier). Then click **OK**.

STEP 3: Set the JMCIS host table.

For any JMCIS host to communicate with any other JMCIS host, the JMCIS host table must be set. Each host entered into this table must have an entry in the sites' */etc/hosts* table. At this point, the JMCIS software does not use DNS to resolve host names.

To set the JMCIS host table, perform the following functions.

- a. Log in as **sysadmin**.
- b. Select **Config DDN HostTable** from the Network pull-down menu.
- c. Pull in the */etc/hosts* table:

With the cursor in the "HostTable" window, push and hold the right mouse button. Select UPDATE from this box. This imports the */etc/hosts* table into the HostTable window. Each external host that the JMCIS master needs to have connectivity needs to be in the */etc/hosts* table.

- d. Edit each entry and assign a Unique Host ID (UHID) to each host. These UHID's are only applicable to the site's local JMCIS host. The UHID's do not need to correspond to any table and can be assigned arbitrarily.
- e. Save this table.

The following steps may be deferred until user accounts have been established. You must log out of sysadmin and log in as a user.

STEP 4. Set up network communications.

To establish a network channel for the JMCIS software:

- a. Log in as a user.
- b. Select **Communications** from the "Comms" Menu.
- c. Press and hold the right mouse button and then select **Select All**.
- d. Press **Delete**. All entries will disappear.
- e. Press **Add**. An additional window appears.
- f. Enter in a name for the channel (suggestion: **NETWORK**)
- g. Enter a channel XREF (suggestion: **NET**). This XREF must be unique to that channel; i.e., a site cannot add another channel with the same XREF.
- h. Scroll through the list at the bottom of the window and highlight the **NETWORK** option.
- i. Select **OK**, and the "Communications" window reappears.
- j. Highlight the **NETWORK** channel just created, and then select **Edit**.
- k. Press and hold the left mouse button on the button bar and select the **JMCIS Master** from this list.
- l. Click on **AutoStart**. Then select **OK**.
- m. Highlight the **NETWORK** option, press and hold the right mouse button and select **Activate** from this window. The network channel should now be active and the site should be able to send and receive messages through this interface.

STEP 5: Set up the MDX communications.

- a. Select **ADD** from the "Communications" window.
- b. Enter a name for an MDX channel (suggestion: **MDX1**).
- c. Enter an XREF for the MDX channel.
- d. Select **MDX** from the scroll list, then select **OK**.
- e. Highlight the **MDX** entry just created from the "Communications" window, then select **Edit**.

- f. Coordinate the site's entries in this window with the site that will be sending an MDX feed. The user needs to enter the host name that will be sending the data.

STEP 6: Select **Reboot System** from the **Hardware** menu and then click the **OK** button to acknowledge the warning. **The system reboots.**



## 1Installing the Web Browser Segment

- STEP 1: Insert the tape containing the **Web Browser** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **Netscape Web Browser** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.
- STEP 5: Click the **OK** button to acknowledge the warning.
- STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Web Browser segment from the DAT drive and store it in a safe place.

## 1Installing the Oracle Application Server Tools Segment

- STEP 1: Type **sysadmin** and press [RETURN] at the "GCCS Workstation Console Login:" prompt.
- Type **vinson** at the "Password:" prompt and press [RETURN].
- STEP 2: Insert the tape containing the **Oracle Application Server Tools** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 3: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 4: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 5: Select **Oracle Application Server Tools** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing

the selected segment(s). When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.

STEP 6: Click the **OK** button to acknowledge the warning.

STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Oracle Application Server Tools segment from the DAT drive and store it in a safe place.

## 1Installing the JNAV Segment

STEP 1: Insert the tape containing the **JNAV** segment into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **JOPE NAVIGATION** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.

STEP 5: Click the **OK** button to acknowledge the warning.

STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the JNAV segment from the DAT drive and store it in a safe place.

## 1Installing the RDA Segment

STEP 1: Insert the tape containing the **RDA** segment into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **RDA** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

Observe an Xterm with the title "**PostInstall.set\_servername**"

Enter XTP server name [emserver]:

STEP 5: Press [**RETURN**].

The following message appears:

Server emserver is reachable.

XTP is installed on emserver.

Use emserver as the XTP server (y/n) [n]:

- STEP 6: Type **y** and press **[RETURN]**.
- When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 7: Click the **OK** button to acknowledge the warning.
- STEP 8: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the RDA segment from the DAT drive and store it in a safe place.

## 1Installing the PDR Segment

- STEP 1: Insert the tape containing the **PDR** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.
- STEP 4: Select **PDR** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s).
- Observe an Xterm with the title “**PDR INSTALL**”.
- Does an ORACLE printer definition exist on this system? (y/n) [y]
- STEP 5: Type **n** and press **[RETURN]**.
- When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 6: Click the **OK** button to acknowledge the warning.
- STEP 7: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the PDR segment from the DAT drive and store it in a safe place.

## 1Configuring Default Printers for PDR

If printers have already been configured for the network, proceed with the following steps.

- STEP 1: Click on the **Printer** icon.

Observe a window with the title “**S\_printer\_admin\_main\_menu**”.

STEP 2: Type **I** (update printers on this print client) and press **[RETURN]**.

The system lists the available printers.

STEP 3: Press **[RETURN]** at the prompt to return to the main menu.

- STEP 4: Type **H** (change System Default Printer) and press **[RETURN]**.  
The system lists available printers. Observe the following prompt:  
Enter your selection or 0 to quit and hit <Return>.
- STEP 5: Select the number that corresponds with the printer you want to set as the default and press **[RETURN]**.
- STEP 6: Type **q** to exit the Printer Admin menu.
- STEP 7: Click the **xterm** icon to open an xterm.
- STEP 8: Change to the following directory by typing:  
**cd /h/COTS/ORACLE/guicommon/tk2/admin**
- STEP 9: Type **vi uiprint.txt** press **[RETURN]**.
- STEP 10: Type **[shift] G** (to go to the bottom of the file).
- STEP 11: Type **o** (to insert a new line).
- STEP 12: Type **[default printer name]:Post Script:1:[printer description]:default.ppd:**
- STEP 13: Press **[ESC]** .
- STEP 14: Type **:wq!**.

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| <p><b>Note:</b> This file should be transferred via FTP to each HP machine with ORACLE Application Server Tools installed.</p> |
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## 1Installing the IRC Client (IRCC) Segment

- STEP 1: Insert the tape containing the **IRCC** segment into the DAT drive and wait until the control panel LEDs stop blinking.
- STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.
- STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

- STEP 4:       Select **IRCC** from the list so that it is highlighted and click on the **Install** button.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s).
- Observe an Xterm with the title “**Installing tcl**”
- INSTRUCTIONS FOR INSTALLING INTERNET RELAY CHAT CLIENT 1.1
- beginning /h/COTS/IRCC/SegDescrip/PostInstall.TCL...
- You are installing on an HP
- /h/COTS/IRCC/SegDescrip/PostInstall.TCLcompleted.
- hit <CR> to continue...
- STEP 5:       Press [RETURN]. The following message appears:
- Please enter the name of the domain  
for this machine [ ims.disa.mil ] :
- STEP 6:       Enter the requested information and press [RETURN]. The following message appears:
- Is < ims.disa.mil > correct? (y/n) [n]:
- STEP 7:       Type **y** if the your entry is correct and press [RETURN]. The following message appears:
- Is the name of this machine lorax.ims.disa.mil (y/n) [y]:
- STEP 8:       Type **y** if the displayed information is correct and press [RETURN]. The following message appears:
- Is the IP address of this machine xxx.xxx.xxx.xxx (y/n) [y]:
- STEP 9:       Type **y** if the displayed information is correct and press [RETURN].
- Adding "l:xxx.xxx.xxx.xxx::lorax.ims.disa.mil:1" to  
/h/data/global/IRC/ircd.conf.
- ... hit <CR> to continue...
- STEP 10:      Press [RETURN]. The following message appears:
- N O T I C E !!!
- Your server will not recognize this machine as a valid client  
until it re-reads its configuration file. On lorax.ims.disa.mil, execute

the following as root:

```
kill -HUP `cat /h/COTS/IRCS/lib/ircd/ircd.pid`
```

You can wait until multiple clients have been installed to execute that command.

hit <CR> to continue...

STEP 11: Press **[RETURN]**. The following message appears:

Did you write that command down? Please do so now, if you did not. Note that those are single-open-quotes ('), \*NOT\* apostrophes ('), in that command.

hit <CR> to continue...

STEP 12: Press **[RETURN]**. When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.

STEP 13: Click the **OK** button to acknowledge the warning.

STEP 14: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the IRCC segment from the DAT drive and store it in a safe place.

STEP 15: Repeat this procedure to install **IRCC Patch 1**.

## 1Installing the Text News Client (NEWSC0) Segment

STEP 1: Insert the tape containing the **NEWSC0** segment into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **Text News Client** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

Observe the Xterm with the title "**List the News Servers.**"

INSTRUCTIONS FOR TEXT NEWS CLIENT - VERSION 1.0



Please enter the names of the machines running news servers for this site. This list will be made available as a menu to users running the news client.

Enter the first server name :

STEP 5: Enter the requested information and press [RETURN]. The following message appears:

Is < *lorax* > correct? (y/n) [n]:

STEP 6: Type **y** if the displayed information is correct and press **[RETURN]**. The following message appears:

Please be patient while we ping *lorax*.  
*lorax* is alive  
ping confirms that the machine is there  
Entering *lorax* into the menu of news servers.  
Enter the second server name :

STEP 7: Enter the requested information and press **[RETURN]**. The following message appears:

Is the list complete (y/n) [y]:

STEP 8: Type **y** if the list is complete and press **[RETURN]**. The following message appears:

Your list of news servers is in /h/COTS/NEWSC0/lib/defaultServers.  
You may modify it with any text editor, if you wish to alter it at  
some point in the future.  
The list as you have specified it:  
*lorax*  
/h/COTS/NEWSC0/SegDescrip/PostInstall.servers is completed.  
Hit <CR> to continue...

STEP 9: Press **[RETURN]**. When the segment has completed installation, the warning  
“Selected segment(s) installed successfully” appears.

STEP 10: Click the **OK** button to acknowledge the warning.

STEP 11: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing  
the NEWSC0 segment from the DAT drive and store it in a safe place.

## 1Installing the Text News Client Patch Segments

STEP 1: Insert the tape containing the **NEWSC0 Patch1** segment into the DAT drive and  
wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The  
**Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents

portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **Text News Client Patch 1** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

STEP 5: Repeat this procedure to install Text News Client Patch2, Text News Client Patch3, and Text News Client Patch 4.

## 1 Installing the X-Windows Based News Client (NEWSC1) Segment

STEP 1: Insert the tape containing the **NEWSC1** segment into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the Software pull-down menu. The **Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **XWindows Based News Client** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

Observe the Xterm with the title "**List the News Servers**".

### INSTRUCTIONS FOR TEXT NEWS CLIENT - VERSION 1.0

Please enter the names of the machines running news servers for this site. This list will be made available as a menu to users running the news client.

Enter the first server name :

STEP 5: Enter the requested information and press **[RETURN]**. The following message appears:

Is <lorax> correct? (y/n) [n]:

STEP 6: Type **y** if the displayed information is correct and press **[RETURN]**. The following message appears:

Please be patient while we ping *lorax*.  
*lorax* is alive  
ping confirms that the machine is there  
Entering *lorax* into the menu of news servers.  
Enter the second server name :

STEP 7: Enter the requested information and press [RETURN].

Is the list complete (y/n) [y]:

STEP 8: Type *y* if the list is complete and press [RETURN]. The following message appears:

Your list of news servers is in /h/COTS/NEWSC0/lib/defaultServers.  
You may modify it with any text editor, if you wish to alter it at some  
point in the future.  
The list as you have specified it:  
*lorax*  
/h/COTS/NEWSC0/SegDescrip/PostInstall.servers is completed.  
Hit <CR> to continue...

STEP 9: Press [RETURN]. When the segment has completed installation, the warning  
“Selected segment(s) installed successfully” appears.

STEP 10: Click the **OK** button to acknowledge the warning.

STEP 11: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing  
the NEWSC1 segment from the DAT drive and store it in a safe place.

STEP 12: Click on the **xterm** icon on the Launch Window as sysadmin.

## 1 Installing the XWindows-Based News Client Patch Segments

STEP 1: Insert the tape containing the **NEWSC1 Patch1** segment into the DAT drive and  
wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The  
**Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents  
portion of the Segment Installer window are the names of software segments  
contained on the tape.

STEP 4: Select **XWindows News Client Patch 1** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

STEP 5: Repeat this procedure to install XWindows News Client Patch2 and XWindows News Client Patch3.

## 1Installing the Run Remote Segment

STEP 1: Insert the tape containing the **Run Remote** segment into the DAT drive and wait until the control panel LEDs stop blinking.

STEP 2: Use the mouse to select **Segment Installer** from the **Software** pull-down menu. The **Segment Installer** window appears.

STEP 3: Click on the **Read TOC** button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape.

STEP 4: Select **Run Remote** from the list so that it is highlighted and click on the **Install** button.

A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning "Selected segment(s) installed successfully" appears.

STEP 5: Click the **OK** button to acknowledge the warning.

STEP 6: Exit the Segment Installer by clicking the **Exit** button. Remove the tape containing the Run Remote segment from the DAT drive and store it in a safe place.

## 1Populating the NIS database from the NIS+ database

STEP 1: Log in as sysadmin on the NIS+ server.

STEP 2: Open an xterm window.

STEP 3: Type the following command: **niscat passwd.org dir >/tmp/passwd.**

STEP 4: Edit the file:

a. Type **vi /tmp/passwd.**

b. Type **/** (slash).

- c. Type **cs****h** to move to the first instance of **cs****h**.
- d. Type **C** to change to the end of the line.
- e. Type **cs****h** and press [ESC] to change the rest of the line to **cs****h**. Then delete the rest of the line.
- f. Type **n** to move to the next instance of **cs****h**.
- g. Type **.** (period) to repeat the last command.
- h. Repeat STEPS f and g until all of the extra text after */bin/csh* for each user is deleted.
- i. Type **wq!** when the end of the file is reached.

STEP 5: Type the following command: **niscat group.org dir > /tmp/group**.

- STEP 6: Transfer the files via FTP from the EM server to the NIS server.
- Type **ftp HP NIS server name**.
  - Type **bin**.
  - Type **send /tmp/passwd /h/EM/nis files/password**.
  - Type **send /tmp/group /h/EM/nis files/group**.
  - Type **quit**.
- STEP 7: Log out of the EM server.
- STEP 8: Log in to the HP NIS server as *sysadmin*.
- STEP 9: Initiate an xterm window.
- STEP 10: Execute the following command: **/usr/etc/yp/ypmake DIR=/h/EM/nis files passwd**.
- STEP 11: Execute the following command: **/usr/etc/yp/ypmake DIR=/h/EM/nis files group**.
- STEP 12: Change the */etc/netnfsrc* file to reflect the new location of the NIS files.
- Type **vi /etc/netnfsrc**.
  - Type **/** (slash).
  - Type **rpc.yppasswd**.
  - Type **dd**.
  - Type **i**.
  - Type **/usr/etc/yp/rpc.yppasswd /h/EM/nis\_files/passwd passwd DIR=/h/EM/nis\_files**.
  - Press **[ESC]**.
  - Type **:wq!** and press **[RETURN]**.

## APPENDIX: GCCS HP SOFTWARE INSTALLATION CHECKLIST

|    | GCCS HP Software Name    | Checklist |
|----|--------------------------|-----------|
| 1  | GCCS HP-UX OS            |           |
| 2  | GCCS COE                 |           |
| 3  | Executive Manager        |           |
| 4  | GCCS Patch5              |           |
| 5  | EM Printer               |           |
| 6  | EM Print Patch           |           |
| 7  | EM Process Patch         |           |
| 8  | Printer                  |           |
| 9  | Joint Mapping Toolkit    |           |
| 10 | JMTKP2                   |           |
| 11 | UBApps                   |           |
| 12 | UBAppsP2                 |           |
| 13 | JMCISApps                |           |
| 14 | JMCISAppsP2              |           |
| 15 | Unified Build DNS Patch  |           |
| 16 | ORACLE Tools             |           |
| 17 | JNAV                     |           |
| 18 | RDA                      |           |
| 19 | PDR                      |           |
| 20 | Web Browser              |           |
| 21 | IRCC                     |           |
| 22 | IRCC.P1                  |           |
| 23 | NEWSC0 (Text-based news) |           |
| 24 | NEWSC0.P1                |           |
| 25 | NEWSC0.P2                |           |
| 26 | NEWSC0.P3                |           |
| 27 | NEWSC0.P4                |           |
| 28 | NEWSC1 (Windows news)    |           |
| 29 | NEWSC1.P1                |           |
| 30 | NEWSC1.P2                |           |
| 31 | NEWSC1.P3                |           |
| 32 | Run Remote               |           |